Abstract of the Disclosure

Systems and methods for single-point to fixed-multipoint communication. The invention dynamically allocates bandwidth based on traffic demands, thus providing efficient bandwidth utilization, particularly with bursty or time sensitive data traffic. A system includes a Base Station and a plurality of Remote Stations. The Base Station transmits information to the Remote Stations via a Forward Channel and the Remote Stations transmit information via a Reverse Channel. Before transmitting on the Reverse Channel, each of the Remote Stations listens (monitors) the Reverse Channel to ascertain whether any other Remote Station is transmitting. Remote Stations transmit data only when a Remote Station determines that the channel is clear. The Remote Stations listen in sequential order, eliminating the probability of collisions caused by simultaneous transmissions from Remote Stations. The data traffic is accordingly aggregated, thus providing efficient bandwidth utilization.